

## Arrangement and method for producing therapeutic insoles

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### Claims

1. Arrangement for producing therapeutic insoles, consisting of a platform with  
a scanner (1) for scanning the undersides of the patient's feet, a data  
10 processing connection for transmitting the scanned image to a computer, a  
data processing computer program which converts the transmitted data into  
working instructions for the control of a milling machine, and of said milling  
machine which mills a therapeutic insole from a blank according to said  
working instructions,  
15 characterized in that  
neurological proceptors (3, 4) are placed on the scanner (1) under the  
patient's foot (2) in accordance with the patient's predisposition,  
the proceptors (3, 4) are part of a set of standardized proceptors having  
various dimensions,  
20 the proceptors (3, 4) are identified by markings on their underside,  
and the scanned image contains the identifying markings and the  
orientation of the proceptors.
2. Arrangement according to Claim 1,  
25 characterized in that  
the markings and orientation of the proceptors constitute the computer  
information to be converted into working instructions for the control of the  
milling machine.
- 30 3. Arrangement according Claim 1 or 2,  
characterized in that  
the markings are the size and/or form of the proceptors.

4. Arrangement according to Claim 1 or 2,  
characterized in that  
the markings consist of imprints, coloration, stickers, embossings or some  
5 such.
5. Method of producing a therapeutic insole, consisting of the following  
steps:
- 10 - Preparing a platform with a scanner (1) for the underside of the patient's  
foot;  
- Aligning the patient's foot position in accordance with a predetermined  
orientation;  
- Arranging identified proceptors (3, 4) under the patient's feet according  
15 to a predisposition of the patient;  
- Scanning the underside of the patient's foot with the proceptors arranged  
under it;  
- Transmitting the scanned image to a computer;  
- Converting the information of the image by the computer into working  
20 instructions for controlling a milling machine, whereby the computer is  
programmed with computing steps representing the respective markings  
and the orientation of the proceptors;  
- Milling the therapeutic insoles (5) from prefabricated blanks in  
accordance with the working instructions;  
25 - whereby the working instructions are substantially based on the  
processing of the markings and the orientation of the proceptors and  
whereby not only the contours of the therapeutic insole, but also the  
dimensions of the proceptors are milled out.
- 30 6. Method according to Claim 5,  
characterized in that  
the scanning and milling steps follow in automatic sequence.